

Appendix I

Hydrogeologic Maps and Cross Sections

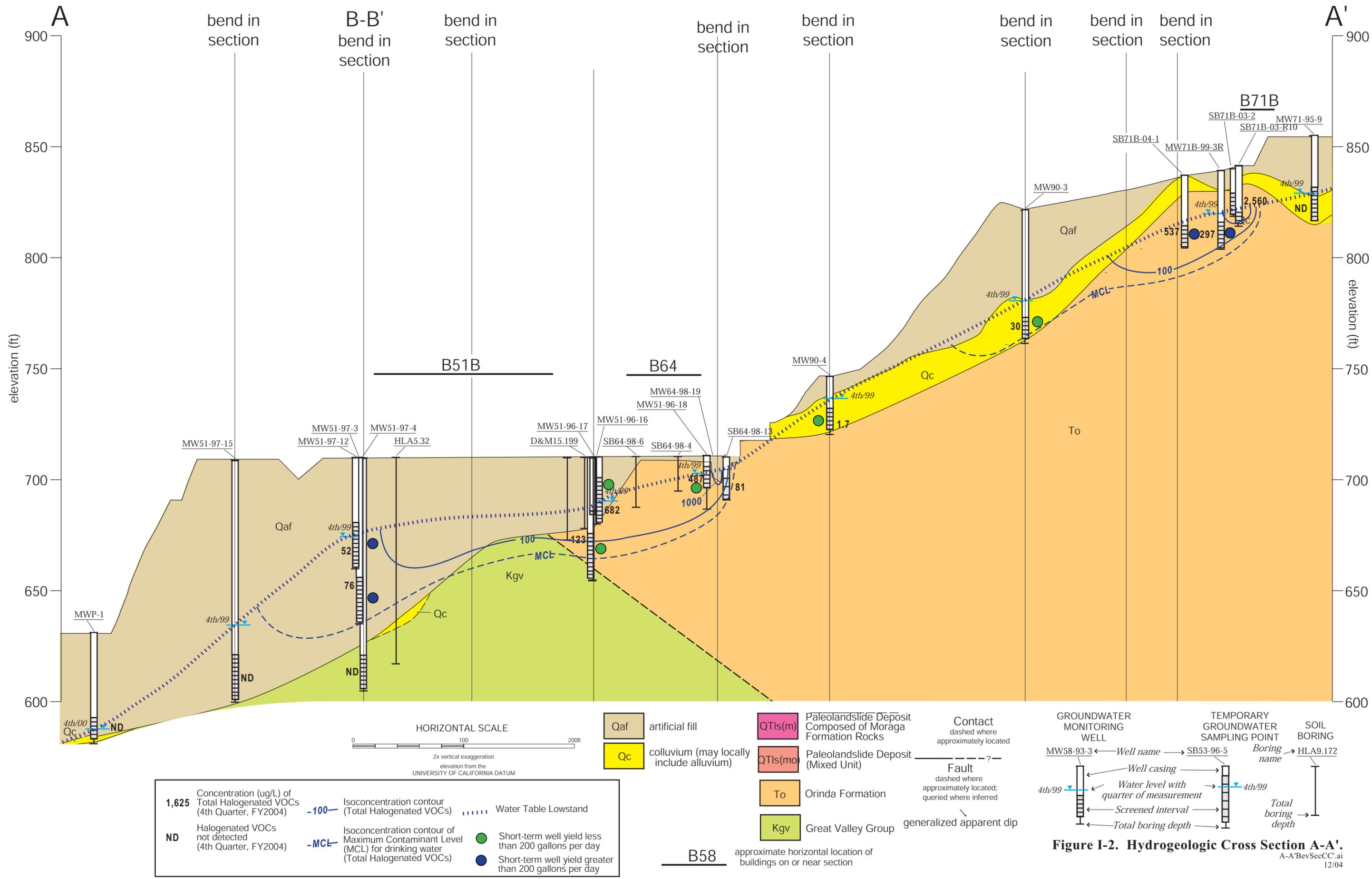
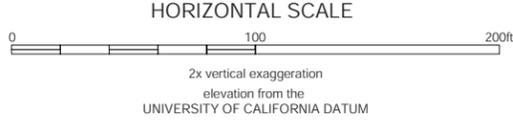
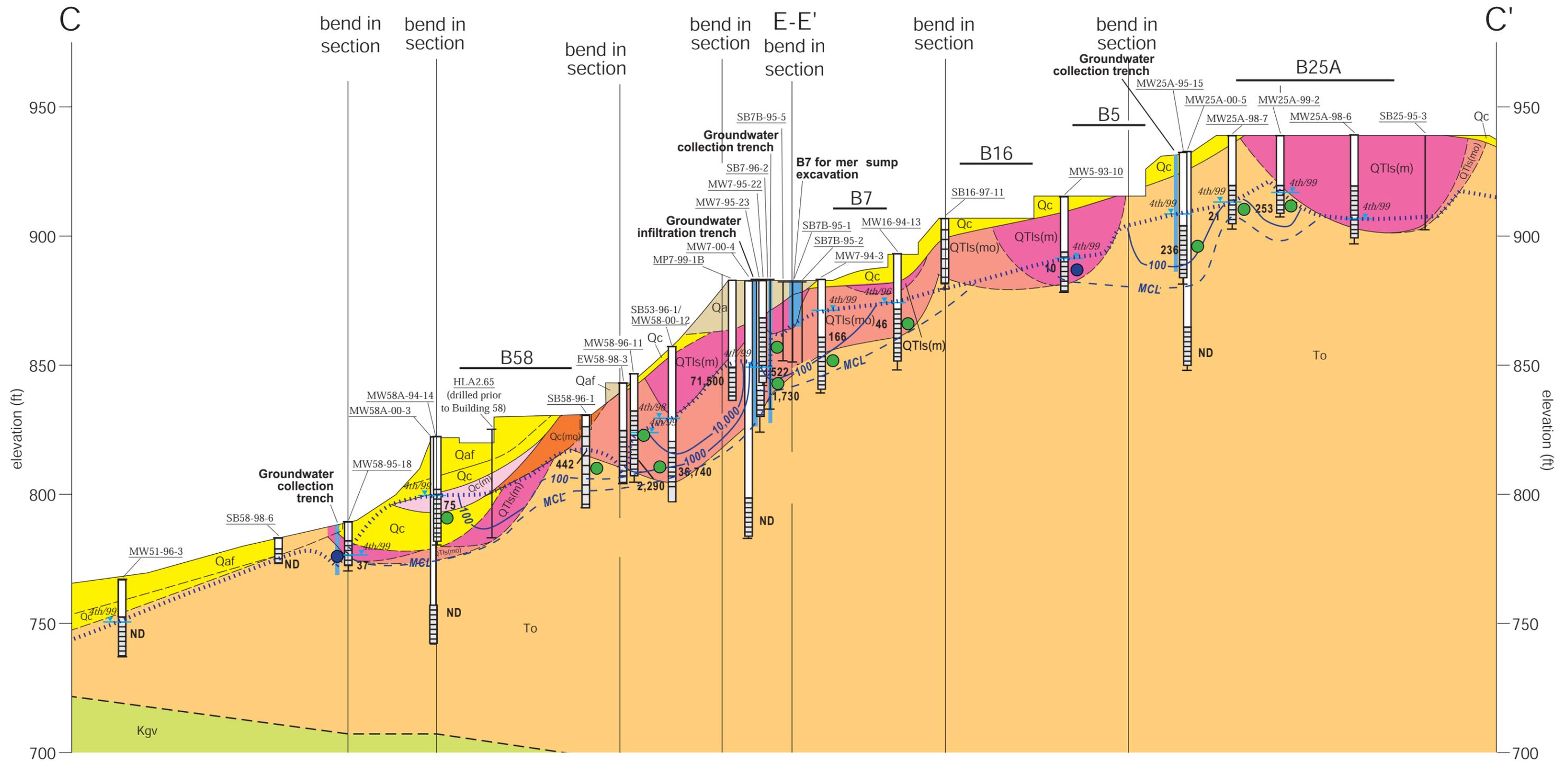


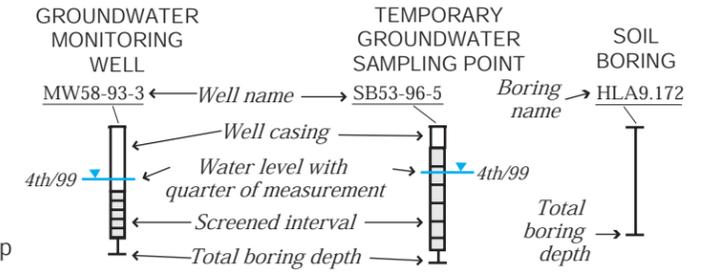
Figure I-2. Hydrogeologic Cross Section A-A'.
 A-A' BevSecCC.ai
 12/04



tinted box indicates unit appears in section

- Qaf artificial fill
- Qc colluvium (may locally include alluvium)
- Qc(m) colluvium composed of Moraga Formation Rocks
- Qc(m) colluvium composed of Mixed Unit Rocks
- QTIs(m) paleolandslide deposit composed of Moraga Formation rocks
- QTIs(mo) paleolandslide deposit (Mixed Unit)
- To Orinda Formation
- Kgv Great Valley Group

- Contact dashed where approximately located
- Fault dashed where approximately located; queried where inferred
- generalized apparent dip



1,625 Concentration (ug/L) of Total Halogenated VOCs (4th Quarter, FY2004)

ND Halogenated VOCs not detected (4th Quarter, FY2004)

-100- Isoconcentration contour line (Total Halogenated VOCs)

-MCL- Isoconcentration contour of Maximum Contaminant Level (MCL) for drinking water (Total Halogenated VOCs)

Water Table Lowstand

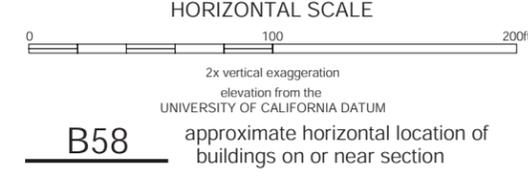
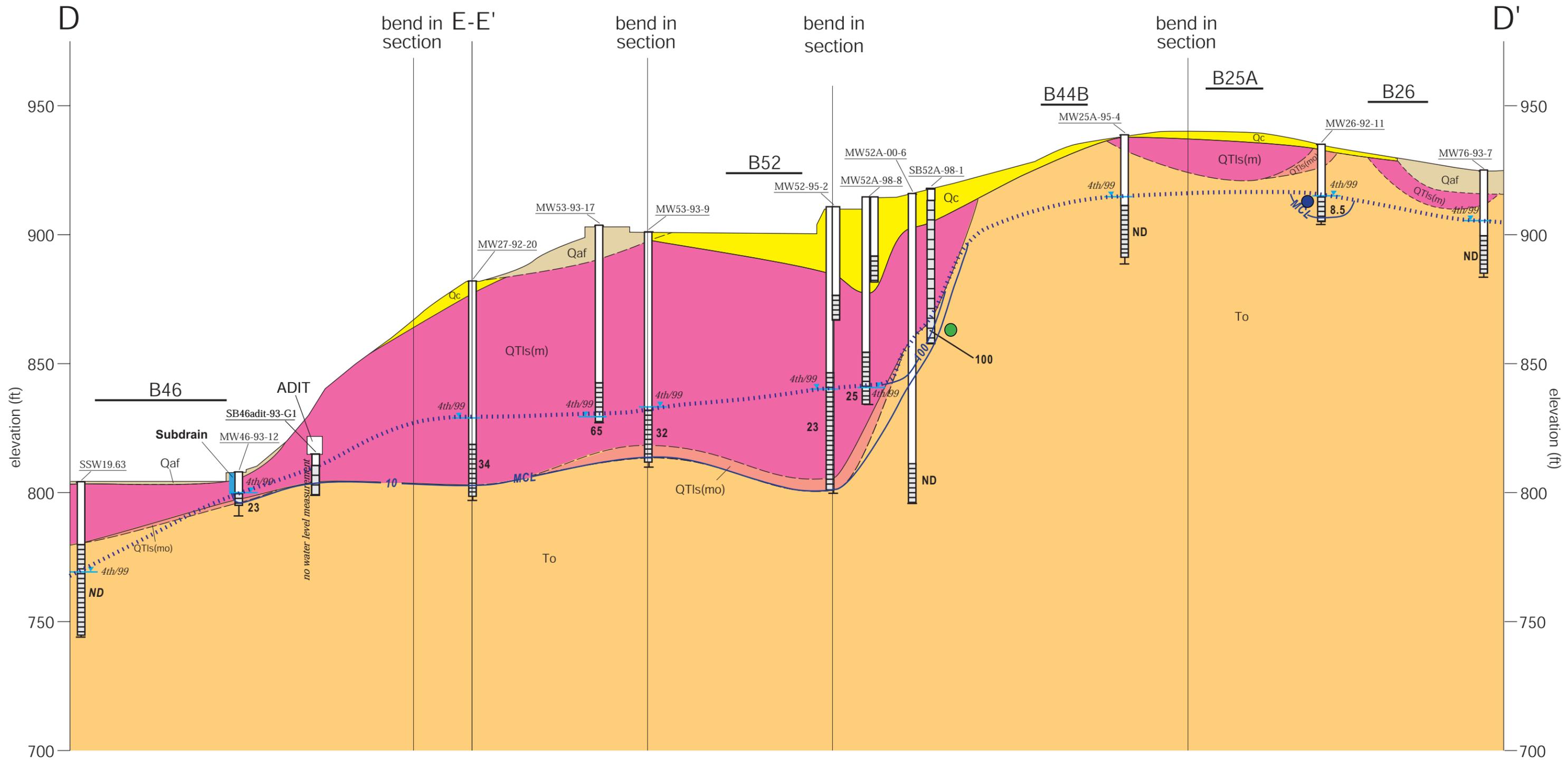
● Short-term well yield less than 200 gallons per day

● Short term well yield greater than 200 gallons per day

B58 approximate horizontal location of buildings on or near section

Figure I-4. Hydrogeologic Cross Section C-C'.
14-C-C'OTSecCC'.ai
11/04

revision: 9/27/2000



| | | | | | |
|-------|----------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------|
| 1,625 | Concentration (ug/L) of Total Halogenated VOCs (4th Quarter, FY2004) | -100- | Isoconcentration contour (Total Halogenated VOCs) | | Water Table Lowstand |
| ND | Halogenated VOCs not detected (4th Quarter, FY2004) | -MCL- | Isoconcentration contour of Maximum Contaminant Level (MCL) for drinking water (Total Halogenated VOCs) | ● | Short-term well yield less than 200 gallons per day |
| | | | | ● | Short-term well yield greater than 200 gallons per day |

| | | | | | |
|-----|---------------------------------------------|----------|-----------------------------------------------------------------|-----|---------------------------------------------------------------------------|
| Qaf | artificial fill | QTIs(m) | Paleolandslide Deposit Composed of Moraga Formation Rocks | --- | Contact dashed where approximately located |
| Qc | colluvium (may locally include alluvium) | QTIs(mo) | Paleolandslide Deposit (Mixed Unit) | --- | Fault dashed where approximately located; queried where inferred |
| To | Orinda Formation | | | | |

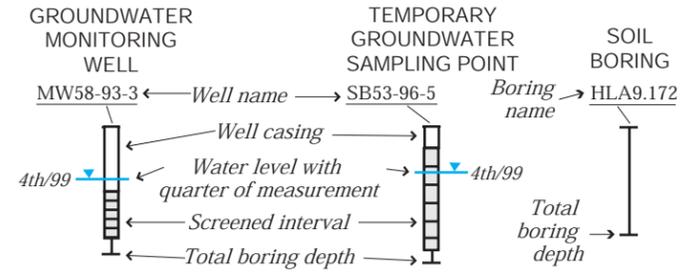
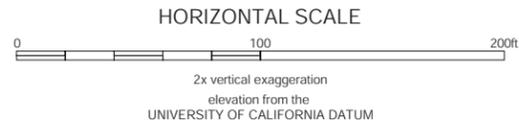
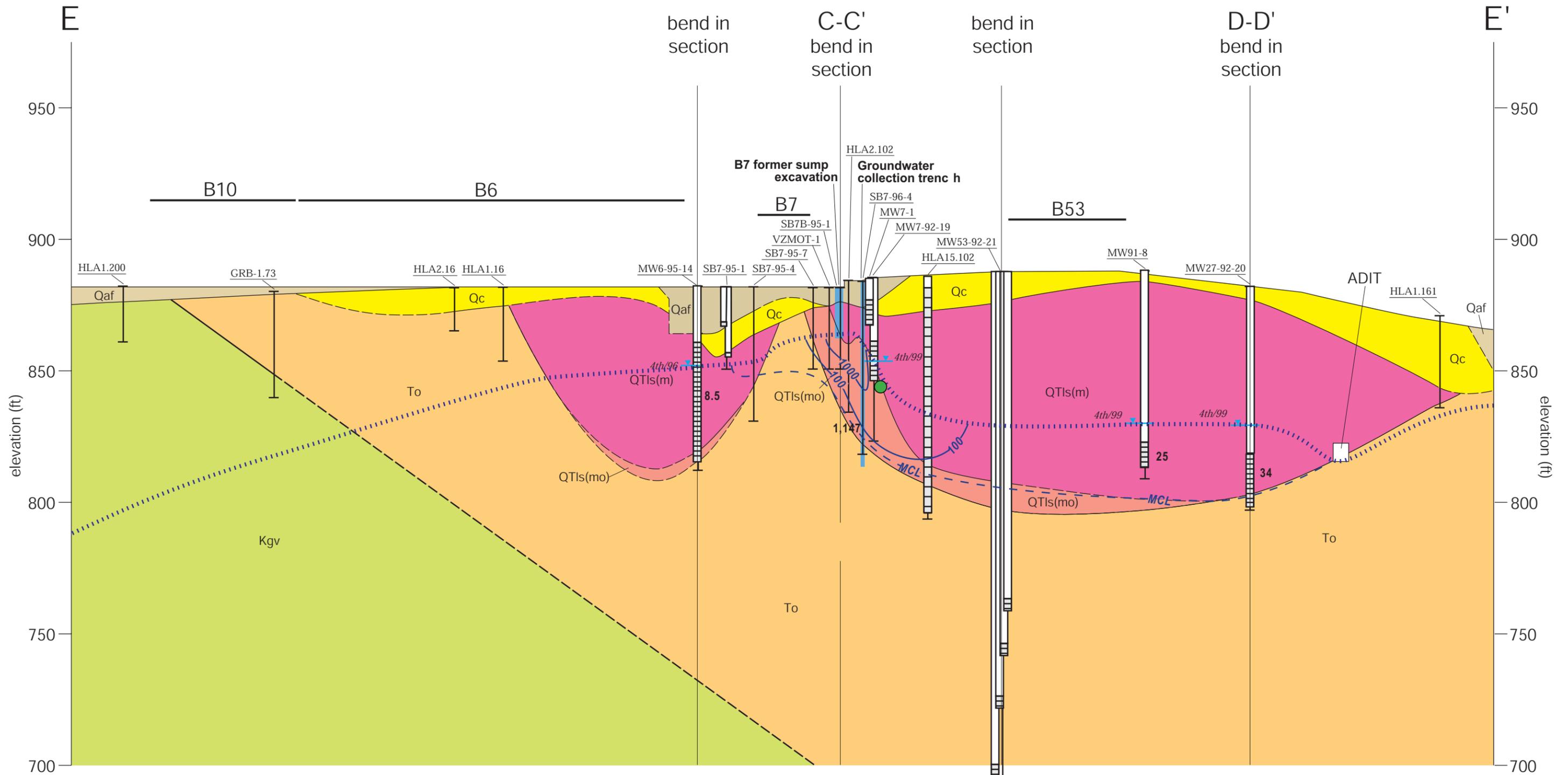


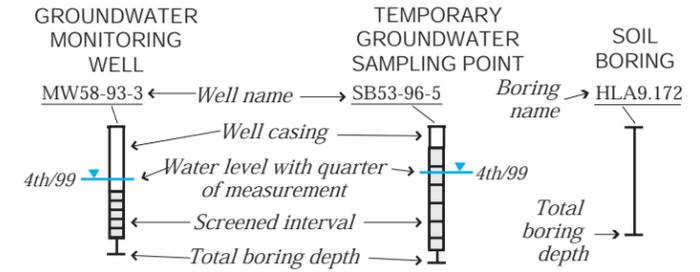
Figure I-5. Hydrogeologic Cross Section D-D'.
15-D-D'OTSecAA'.ai
12/04



B58 approximate horizontal location of buildings on or near section

- Qaf artificial fill
- Qc colluvium (may locally include alluvium)
- QTIs(m) Paleolandslide Deposit Composed of Moraga Formation Rocks
- QTIs(mo) Paleolandslide Deposit (Mixed Unit)
- To Orinda Formation
- Kgv Great Valley Group

- Contact dashed where approximately located
- Fault dashed where approximately located; queried where inferred



- 1,625** Concentration (ug/L) of Total Halogenated VOCs (4th Quarter, FY2004)
- ND** Halogenated VOCs not detected (4th Quarter, FY2004)
- 100-** Isoconcentration contour (Total Halogenated VOCs)
- MCL-** Isoconcentration contour of Maximum Contaminant Level (MCL) for drinking water (Total Halogenated VOCs)
- Water Table Lowstand
- Well yield less than 200 gallons per day
- Well yield greater than 200 gallons per day

Figure I-6. Hydrogeologic Cross Section E-E'.
16-E-E' of sec f.ai
12/04

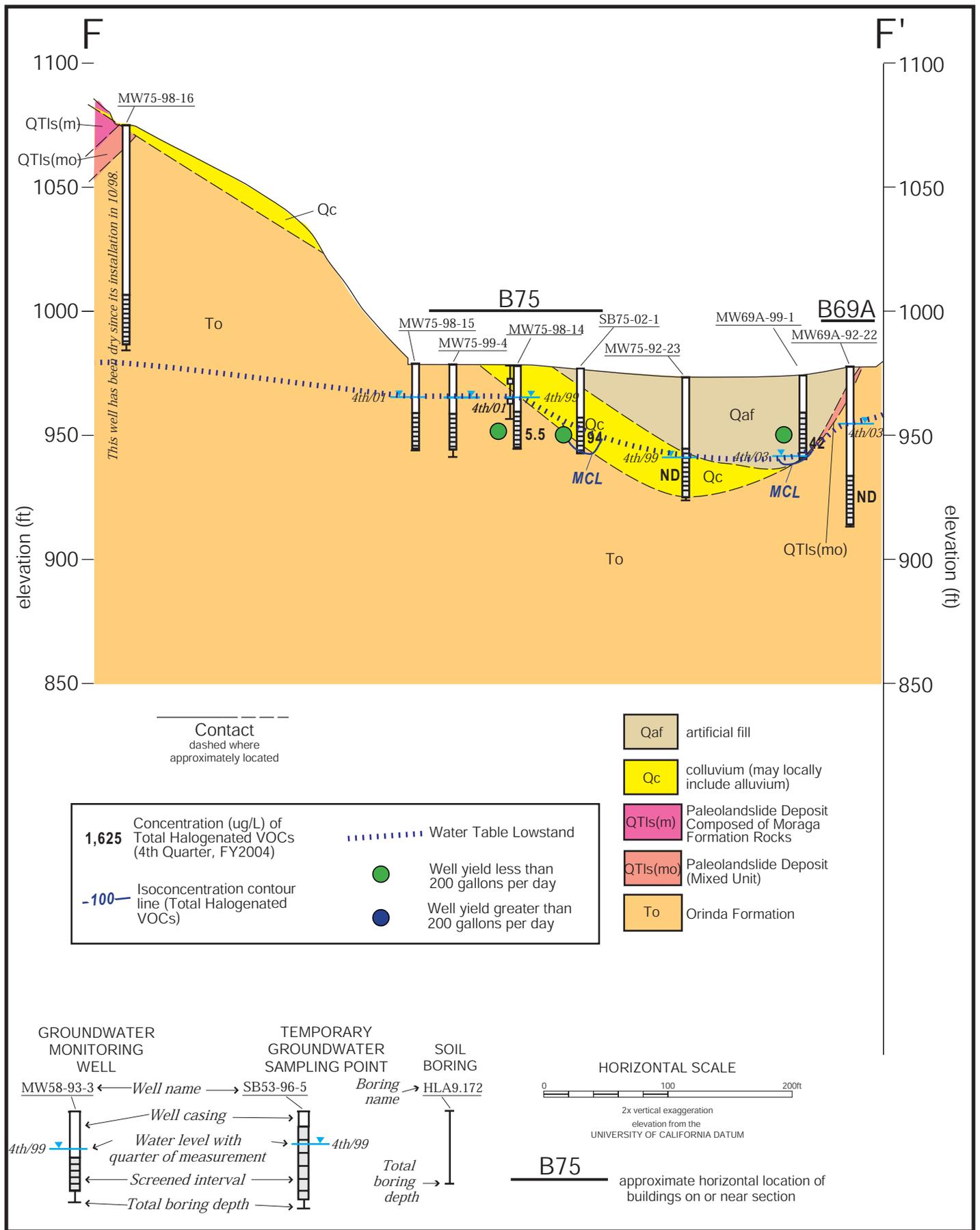
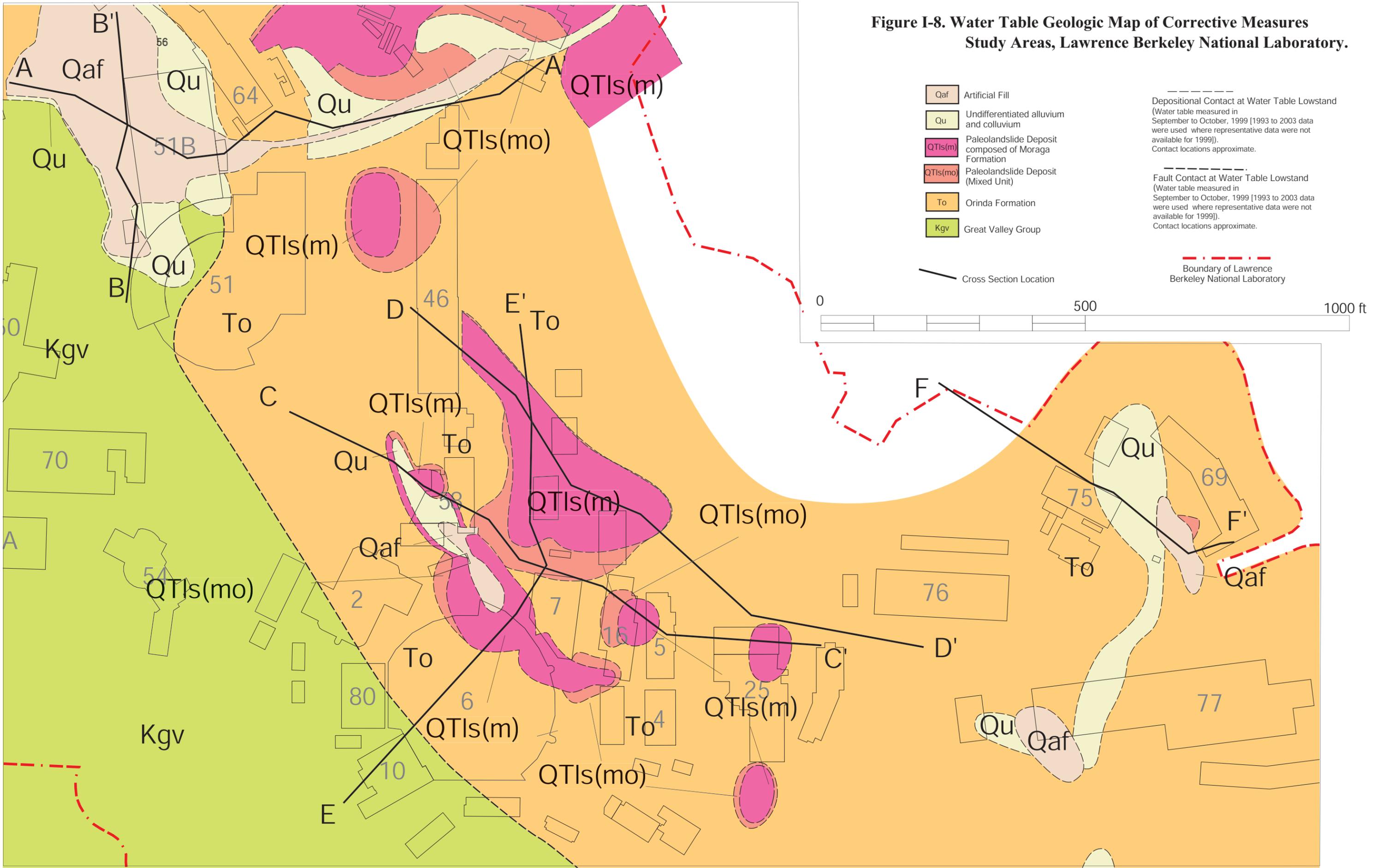
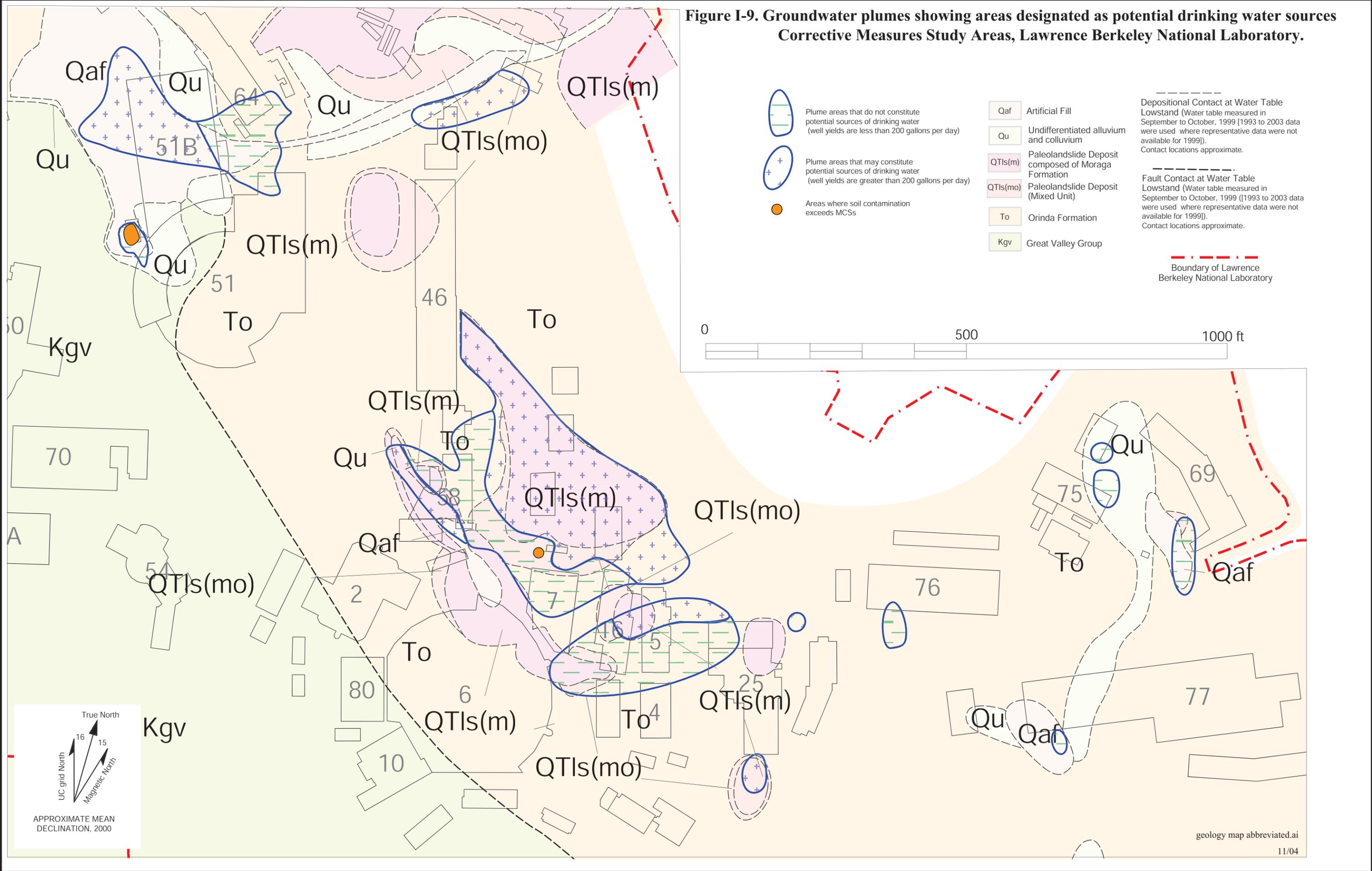


Figure I-7 . Hydrogeologic Cross Section F'F'

Figure I-8. Water Table Geologic Map of Corrective Measures Study Areas, Lawrence Berkeley National Laboratory.



**Figure I-9. Groundwater plumes showing areas designated as potential drinking water sources
Corrective Measures Study Areas, Lawrence Berkeley National Laboratory.**



- Plume areas that do not constitute potential sources of drinking water (well yields are less than 200 gallons per day)
- Plume areas that may constitute potential sources of drinking water (well yields are greater than 200 gallons per day)
- Areas where soil contamination exceeds MCSs

- Qaf Artificial Fill
- Qu Undifferentiated alluvium and colluvium
- QTIs(m) Paleolandslide Deposit composed of Moraga Formation
- QTIs(mo) Paleolandslide Deposit (Mixed Unit)
- To Orinda Formation
- Kgv Great Valley Group

 Depositional Contact at Water Table Lowstand (Water table measured in September to October, 1999 [1993 to 2003 data were used where representative data were not available for 1999]). Contact locations approximate.

 Fault Contact at Water Table Lowstand (Water table measured in September to October, 1999 [1993 to 2003 data were used where representative data were not available for 1999]). Contact locations approximate.

 Boundary of Lawrence Berkeley National Laboratory

